SONY®

CPD-1304

Operating Instructions page 2

Mode d'emploi

page 12

Owner's Record

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No. CPD-1304

Serial No.\_\_\_\_



to rain or moisture. To prevent fire or shock hazard, do not expose the unit

personnel only. Do not open the Dangerously high cabinet. voltages Refer are present inside servicing to qualified the unit.

### INFORMATION

off and on, the user is encouraged to try to correct the interference by one or more of the following measures: television reception, which can be determined by turning the equipment ticular installation. If this equipment does cause interference to part J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. tion. It has been type tested and found to comply with the limits for a However, there is no guarantee that interference will not occur in a par-Class B computing device in accordance with the specifications turer's instructions, may cause interference to radio and television recep-This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacradio or in Sub-

Reorient the receiving antenna

Relocate the equipment with respect to the receiver

Move the equipment away from the receiver

equipment into a different outlet so that equipment and

the following booklet prepared by the Federal Communications Commission helpful: radio/television technician for additional suggestions. The user may find receiver are on different branch circuits.

necessary, the user should consult the dealer or an experienced

let is available from the U.S. Government Printing Office, Washing 20402, Stock No. 004-000-00345-4. "How to identify and Resolve Radio-TV Interference Problems". This book-Iton, DC

This sions set out in Radio Interference Regulations of CANADA A shielded interface cable SMF-523 must be used with this equipment. apparatus complies with the Class B limits for radio noise emis-

> The CPD-1304 is a high resolution character display designed for use with microcomputers, or character generators having either analog or digital RGB output.

### eatures

- Super Fine Pitch Trinitron character display with an anti-glaring dark screen.
- be connected. An RGB terminal which allows equipme nt with analog RGB output to
- Compatible with the PS/2 microcomputer using the VGA.

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•	Frecautions

## Precautions

#### On safety

- Operate the unit only on 120V AC, 60 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the and have it checked by qualified personnel before operating further. it any unit
- days. Unplug the unit from the wall outlet if it is not to be used for several
- To disconnect the AC power cord, pull it out by the plug. Nev the cord itself. er pull

### On installation

- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Allow adequate air circulation to prevent internal heat build-up.
- tors or air ducts, or in a place subject dust, mechanical vibration or shock. Do not install the unit in a location near heat sources such as radiaor in a place subject to direct sunlight, excessive

#### On cleaning

with a mild detergent solution. Never use strong solvents such as thin-ner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it. cloth. Stubborn stains may be removed with a cloth lightly dampened cabinet. As a safety precaution, unplug the unit before cleaning keep the unit looking brand-new, periodically clean it with മ soft

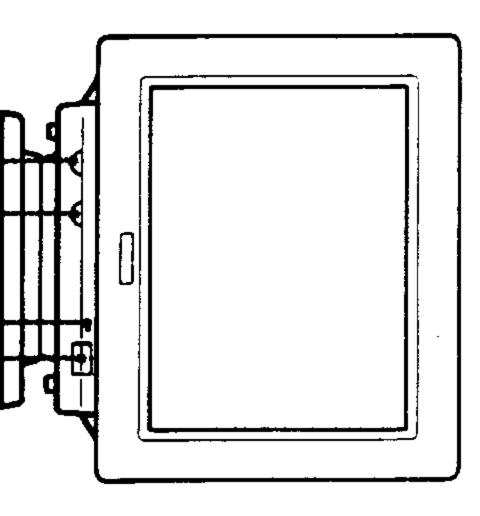
### On repacking

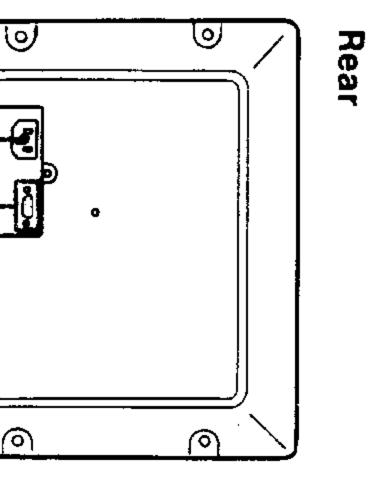
Do not throw away the carton and packing materials. They make ideal container in which to transport the unit. When shipping the uni another location, repack it as illustrated on the carton. unit to an

If you have any questions about this unit, contact your authorized Sony dealer.

## ocation and **Function**

#### Front





**向** 

### ----**POWER** switch and indicator

will light up. To turn off the unit, press To turn on the power of the unit, pres Ś it again. this switch. The indicator

### 2 CONTRAST control (3)

contrast. Turn clockwise to increase contrast, or counterclockwise for less

### ω BRIGHTNESS control (点)

darker display. Turn clockwise for a brighter display, or turn counterclockwise for a

# RGB IN (input) connector (9-pin D-sub)

Connect to the AC outlet with the sup-

plied AC power cord.

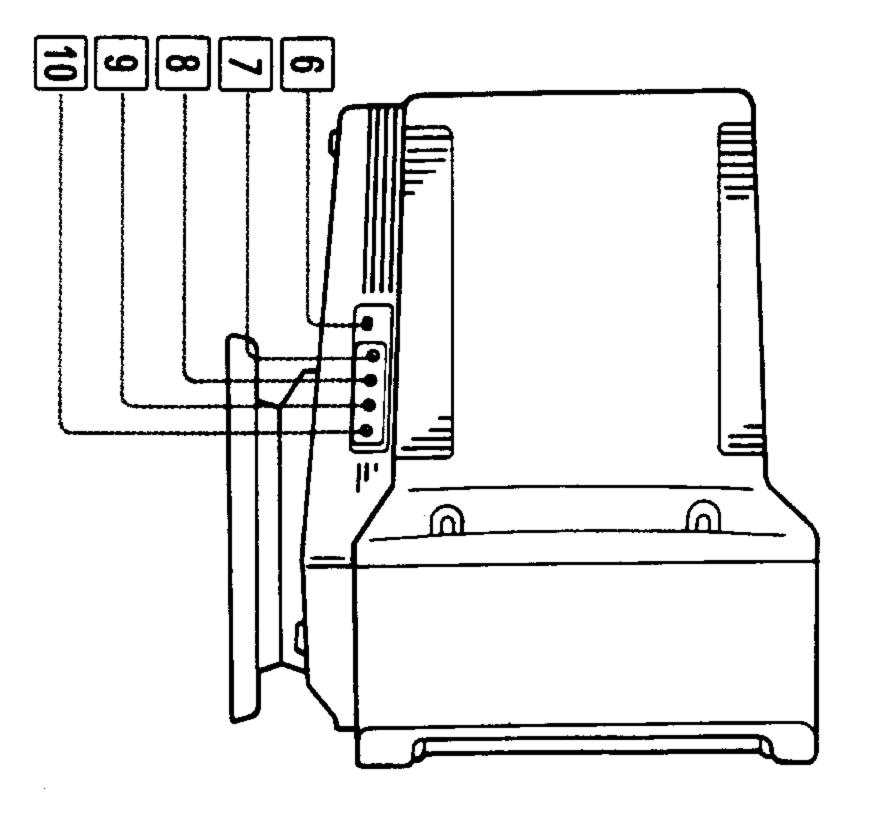
5

[4]

AC IN connector

nected. Allows microcomputer having anal log RGB output ō be

Refer to page 7.



## **AUTO SIZE switch**

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Depending on the microcomputer connected to the display, set this switch to the appropriate position.

LOCK: For the IBM PS/2 ically adjusted to the VGA mode, and the H SIZE, H When this V SIZE and V CENT controls will have no effect. switch s. microcomputer using set to LOCK, the timing the VGA s. automat-SHIFT, mode.

DJ: For other microcomputers having analog RGB output. When this switch is set to ADJ, adjust the display with the H SIZE, H SHIFT, V SIZE and V CENT controls.

## 7 H SIZE (horizontal size) control

Turn this control to adjust the horizontal size of the display.

# [8] H SHIFT (horizontal shift) control

Turn this control to adjust the center of the display horizontally.

## 9 V SIZE (vertical size) control

furn this control to adjust the vertical size of the display.

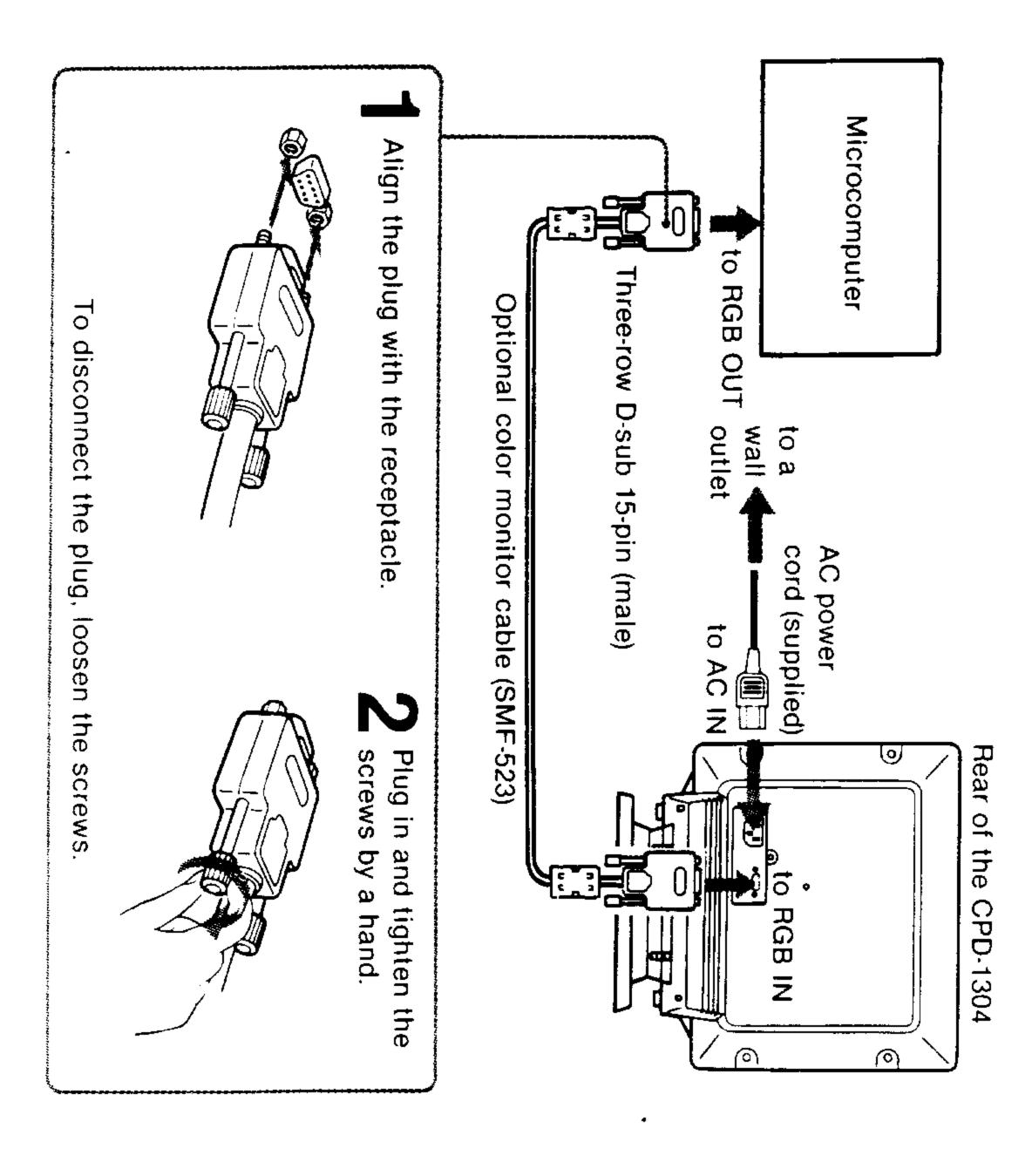
## V CENT (vertical center) control

Turn this control to adjust the center of the display vertically.

## Connections

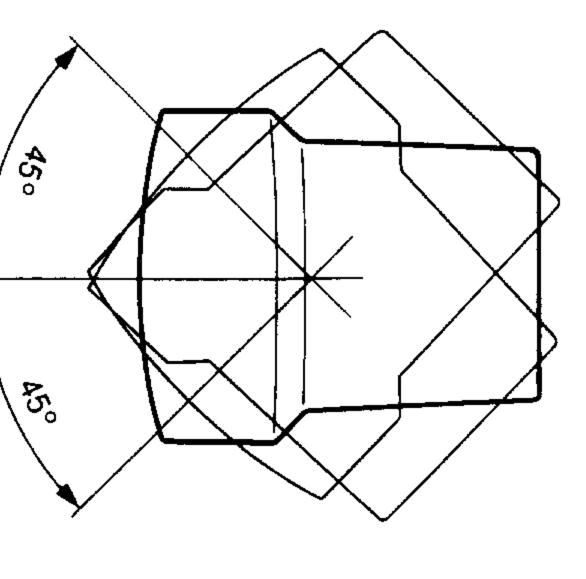
Connect the power cord and the optional SMF-523 color monitor cable with a 9-pin D-sub connector.

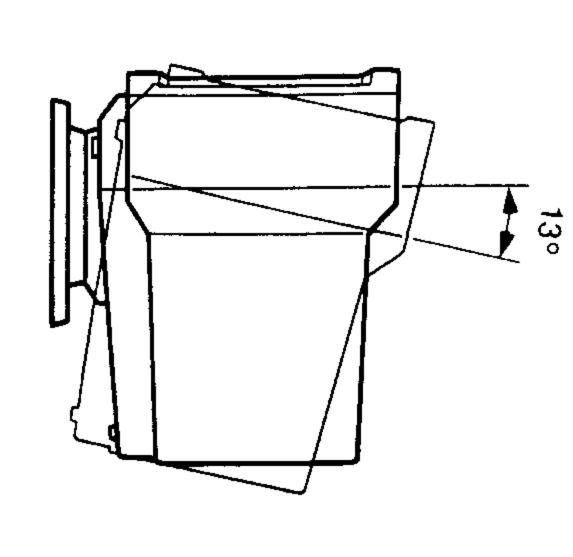
Be sure to turn the power of the unit off before making the connection.



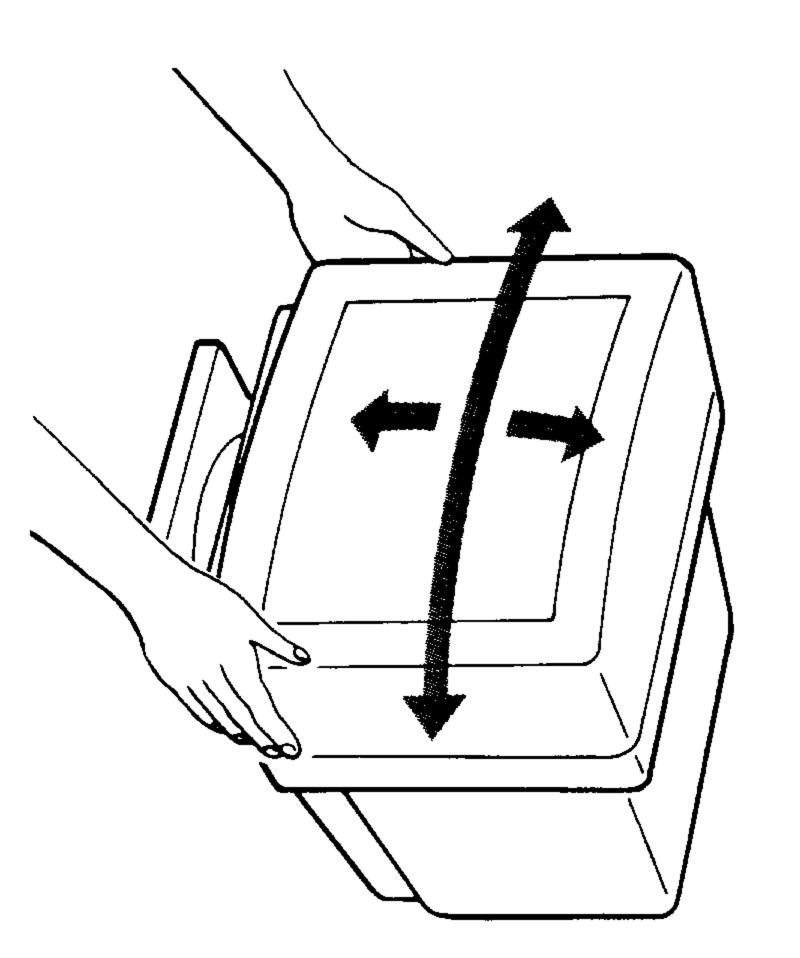
### Use of the Tilt-Swivel

With the tilt-swivel, this desired angle within 90° unit can be adjusted to be viewed horizontally and 13° vertically. at your





as To turn the unit horizontally, hold it at its bottom with your both hands illustrated below.



## Specifications

Picture tube

Super Fine Pitch 13-inch picture tube measured diagonally Trinitron color tube

90 degree deflection

Anti-glaring dark screen

Useful screen 274mm × 207mm

Phosphor P22 Phosphor pitch 0.26mm

 $1024 \times 768$ 

Viewable Pixels

Scanning frequency

50 -Vertical sync 87 Hz signal frequency:

Horizontal sync signal frequency: - 50 kHz

Input connector RGB input (D-sub 9-pin) (Analog)

Video input signal Analog RGB positive

0.714 Vp-p/75Ω terminated

Composite sync TTL level. Polarity free. is acceptable at Pin # 8.

Sync input

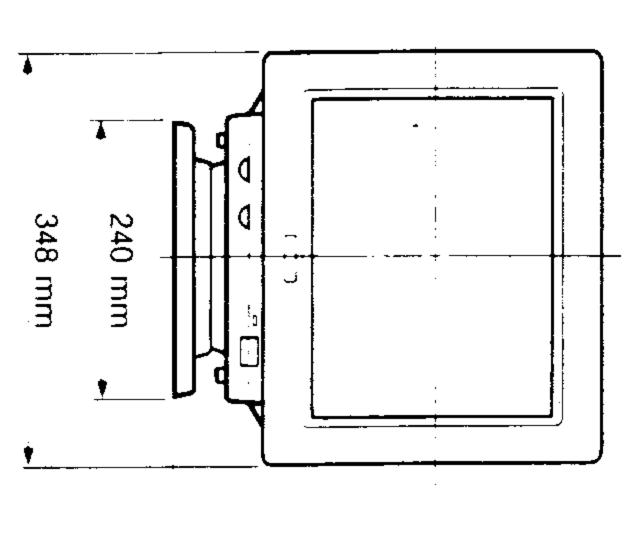
Sync on green is acceptable.

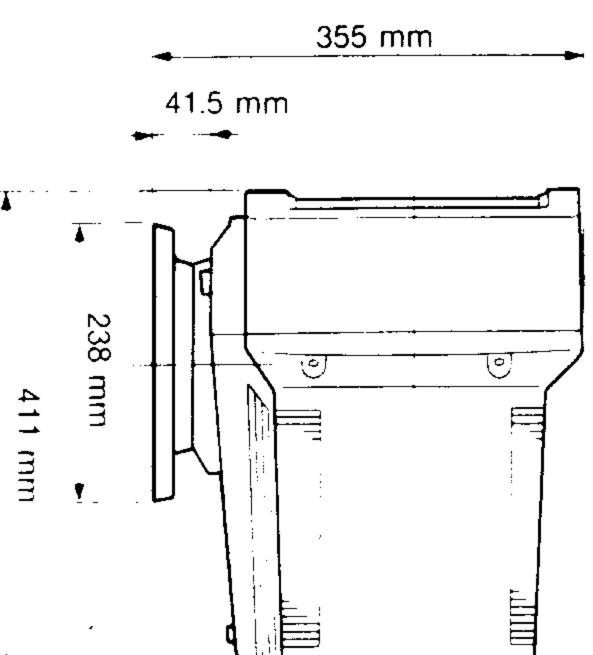
Power requirements

Dimensions

120V AC, 50/60 Hz

 $355(H) \times 348(W) \times 411(D)$  mm  $(14 \times 13^3/_4 \times 16^1/_8)$  inches)





Weight

13.1 kg (29.1 lb)

Including the tilt-swivel

Supplied accessory AC power cord (1)

Monitor cable (9-pin 15-pin)

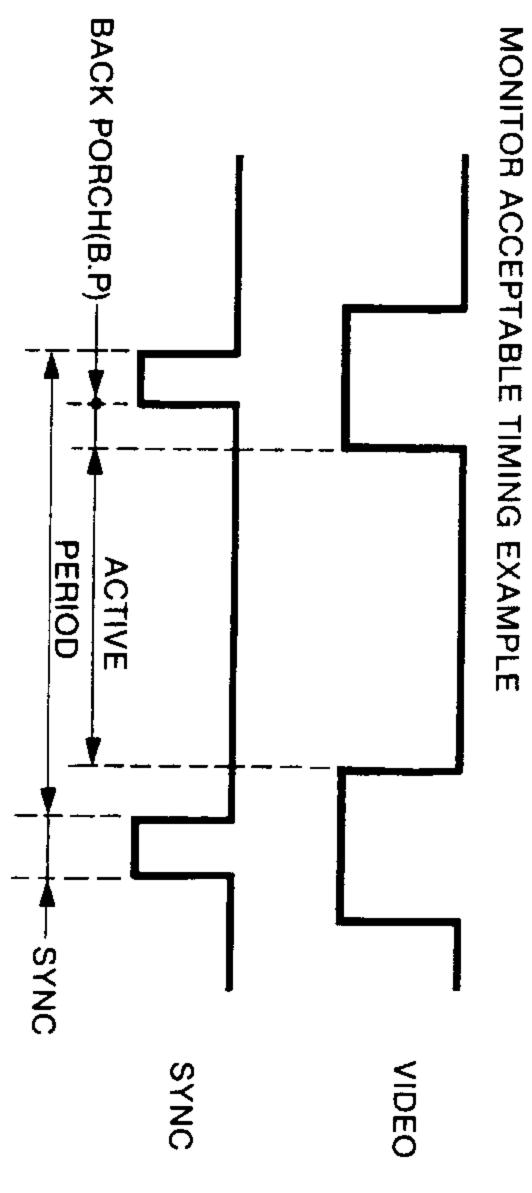
SMF-523

Optional

accessory

Design and specification subject to change without notice.

The following timing chart shows approximate values.



25.175	25.175	25.175	(MHz)	CLOCK FREQ.
NEGA	NEGA	POSI	<	
NEGA	POSI	NEGA	I	SYNC POLARITY
480	350	400	ACTIVE	
32	59	34	B.P	
2	2	2	SYNC	
525	449	449	PERIOD (H)	<
		25.42	ACTIVE	
•	ļ	1.91	B.P	
		3.81	SYNC	
		31.78	PERIOD (uS)	I
59.9	70.1	70.1	V (Hz)	
31.47	31.47	31.47	H (kHz)	FREQ.
3	2			

2 1024 (Z <del>|</del>

44 900	(MH <sub>2</sub> )	CLOCK FREO
POSI	<	
POSI	I	SYNC POLARITY
384	ACTIVE	
20/20.5	B.P	
4	SYNC	
408.5	PERIOD (H)	<
22.81	ACTIVE	
1.25	B.P	
3.92	SYNC	
28.15	PERIOD (µS)	Ī
87.0	V (Hz)	
35.52	H (kHz)	FREQ.
KHZ/IV = 8/F	e (11) = 35.521	$24 \times 100$ interace (iii = 35.52KHZ/IV = 8/H

[1],[2]: WHEN THE AUTO SIZE SW IS IN THE LOCKED POSITION, PICTURE SIZE IS AUTOMATICALLY ADJUSTED FOR THE ABOVE LISTED VIDEO MODES ([1], [2]).

ALL SIZING CONTROLS ON THE LEFT SIDE OF THE MONITOR ARE THEREFORE INEFFECTIVE.

TO ADJUST SIZING FOR OTHER VIDEO MODES, CHANGE THE SW TO ADJ AND ADJUST THE CONTROLS.

POLARITY FREE WITH THE TIMING [1], [2] IF THE AUTO SIZE SW IS NOT USED.

35 kHz 800 × 600 non-interace (example)

			<del>-</del> ,	_	<del>                                     </del>			ェ	1		1
COC								_		FREQ.	
CLOCK FREQ.											
Q	<u></u>	,	<del>,</del>	1		<del>,</del>	<del>,</del>	<b>,</b>		,	
-	ACTIVE	B.P	SYNC	PERIOD	DISPLAY	B.P	SYNC	PERI	<	エ	
<b>≘</b>	E S		O	8	F <sub>A</sub>			PERIOD (µS)		<del>&gt;</del>	
(MHz)				<u>I</u>				(S)	(Hz)	(kHz)	
! !						 				i	
36.000	6			6	22.22	5	ယ	28.44	ဌာ	35.16	
8	600	7	14	628	22	2.67	3.11	44	56.0	16	i

## 48 kHz 1024 × 768 non-interace (example)

CLOCK FREQ. (	ACTIVE	B.P	SYNC	V PERIOD	DISPLAY	B.P	SYNC	H PERIOD		FREQ.
(MHz) 64.000	768		. 4	(H) 803		2.75	1.00	(μS) 20.75	(Hz) 60.0	(kHz) 48.19

3, 4: SYNC POLARITY FREE